



500955 Cover Letter to LAX 10-09 Title V Revision

Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178

(909) 396-2000 • www.aqmd.gov



October 9, 2009

Gerardo Rios
U.S. EPA – Region IX – Air – 3
75 Hawthorne Street
San Francisco, CA 94105

Subject: Title V Permit to Operate Revision

Dear Mr. Rios:

Attached are the Sections H, K and Appendix B of the Title V permit for Los Angeles City, Department of Airport (ID800335). This is a de minimus significant revision which includes the addition of devices C136, D137 to D142, D144, C145 and D146 to D151, D153, D155 to D159, D161 to D165, D167 to D170 and D172 in Section H as follows:

- System 1: Concrete Batch Plant system "A" and a Baghouse
- System 2: Concrete Batch Plant system "B" and a Baghouse
- System 3: Asphalt/concrete crushing operation

The Draft copy had been electronically sent to your attention for review on August 21, 2009. The permit was approved by your staff on October 7, 2009. Please replace these sections accordingly. If you have any questions, please call Thai Tran (909) 396-2562.

Sincerely,

Michael D. Mills

Michael D. Mills, P.E.
Senior Manager
General Commercial and Energy Team
Engineering and Compliance

MDM:MYL:RGC:TT
Enclosure

Cleaning the air that we breathe...



FACILITY PERMIT TO OPERATE

LA CITY, DEPT OF AIRPORT
275 CENTER WAY
LOS ANGELES, CA 90045

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env.
EXECUTIVE OFFICER

By Mike Mills for
Mohsen Nazemi, P.E.
Deputy Executive Officer
Engineering & Compliance



**FACILITY PERMIT TO OPERATE
LA CITY, DEPT OF AIRPORT**

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AQMD

FACILITY PERMIT TO OPERATE LA CITY, DEPT OF AIRPORT

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|--|--------|--------------|---|---------------------------------|--------------------------------|
| Process 9 : CONCRETE BATCH PLANT and CONCRETE/ASPHALT CRUSHING OPERATIONS | | | | | |
| System 1 : CONCRETE BATCH PLANT(S) & CONTROL EQUIPMENT "A" | | | | | S1.1 |
| HOPPER, DRIVE OVER, AGGREGATE, UP TO TWO HOPPERS A/N: 500956 Permit to Construct Issued: 10/09/09 | D137 | | | PM: (9) [RULE 405,2-7-1986] | A103.1, D323.3, E193.7, E193.8 |
| HOPPER, DRIVE OVER, SAND, 1 TOTAL A/N: 500956 Permit to Construct Issued: 10/09/09 | D138 | | | PM: (9) [RULE 405,2-7-1986] | A103.1, D323.3, E193.7, E193.8 |
| CONVEYOR, SAND, AGGREGATE, UP TO THREE (3) RADIAL STACKERS AND UP TO FIVE (5) FEEDS A/N: 500956 Permit to Construct Issued: 10/09/09 | D139 | | | PM: (9) [RULE 405,2-7-1986] | A103.1, D323.3, E193.7, E193.8 |
| HOPPER, FEED, SAND, AGGREGATE, UP TO FIVE (5) HOPPERS A/N: 500956 Permit to Construct Issued: 10/09/09 | D140 | | | PM: (9) [RULE 405,2-7-1986] | A103.1, D323.3, E193.7, E193.8 |
| HOPPER, HOLDING, SAND, AGGREGATE, UP TO THREE (3) HOPPERS, A/N: 500956 Permit to Construct Issued: 10/09/09 | D142 | | | PM: (9) [RULE 405,2-7-1986] | A103.1, D323.3, E193.7, E193.8 |
| HOPPER, WEIGH, SAND, AGGREGATE, UP TO THREE (3) HOPPERS A/N: 500956 Permit to Construct Issued: 10/09/09 | D156 | C136 | | PM: (9) [RULE 405,2-7-1986] | D323.3, E57.1, E193.7 |

* (1)(1A)(1B) Denotes RECLAIM emission factor

(3) Denotes RECLAIM concentration limit

(5)(5A)(5B) Denotes command and control emission limit

(7) Denotes NSR applicability limit

(9) See App B for Emission Limits

(2)(2A)(2B) Denotes RECLAIM emission rate

(4) Denotes BACT emission limit

(6) Denotes air toxic control rule limit

(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)

(10) See Section J for NESHAP/MACT requirements

** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE
LA CITY, DEPT OF AIRPORT**

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The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|--|--------|-------------------------------------|---|---------------------------------|---|
| Process 9 : CONCRETE BATCH PLANT and CONCRETE/ASPHALT CRUSHING OPERATIONS | | | | | |
| STORAGE SILO, FLY ASH, 1 TOTAL A/N: 500956 Permit to Construct Issued: 10/09/09 | D141 | C136 | | PM: (9) [RULE 405,2-7-1986] | D323.3, E57.1, E193.7 |
| STORAGE SILO, CEMENT, 1 TOTAL A/N: 500956 Permit to Construct Issued: 10/09/09 | D157 | C136 | | PM: (9) [RULE 405,2-7-1986] | D323.3, E57.1, E193.7 |
| HOPPER, WEIGH, FLY ASH/CEMENT, UP TO-TWO (2) HOPPERS A/N: 500956 Permit to Construct Issued: 10/09/09 | D158 | C136 | | PM: (9) [RULE 405,2-7-1986] | D323.3, E57.1, E193.7 |
| CONVEYOR, CHARGE, SAND, AGGREGATE, CEMENT, FLYASH A/N: 500956 Permit to Construct Issued: 10/09/09 | D159 | C136 | | PM: (9) [RULE 405,2-7-1986] | D323.3, E57.1, E193.7 |
| MIXER, TILT, CONCRETE, UP TO TWO (2) MIXERS A/N: 500956 Permit to Construct Issued: 10/09/09 | D144 | C136 | | PM: (9) [RULE 405,2-7-1986] | D323.3, E57.1, E193.7 |
| BAGHOUSE, "A", WITH AT LEAST 500 SQUARE FEET FILTER AREA, PULSE JET CLEANING TYPE A/N: 500959 Permit to Construct Issued: 10/09/09 | C136 | D141 D144 D156 D157 D158 D159 | | PM: (9) [RULE 404,2-7-1986] | D12.8, D322.3, D323.3, E102.1, E193.7 |

* (1)(1A)(1B) Denotes RECLAIM emission factor

(3) Denotes RECLAIM concentration limit

(5)(5A)(5B) Denotes command and control emission limit

(7) Denotes NSR applicability limit

(9) See App B for Emission Limits

(2)(2A)(2B) Denotes RECLAIM emission rate

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(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)

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The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|---|-----------------------------------|
| Process 9 : CONCRETE BATCH PLANT and CONCRETE/ASPHALT CRUSHING OPERATIONS | | | | | |
| INTERNAL COMBUSTION ENGINE, R-219 EXEMPT-TIER 3 EPA CERT DIESEL ENG, MAX RATING UP TO 500 BHP, UP TO TWO FRONT END LOADERS A/N: 500956 Permit to Construct Issued: 10/09/09 | D155 | | | NOX: 93.8 LBS/1000 GAL - DIESEL (1) [RULE 2012,5-6- 2005] | C1.22, E193.7 |
| System 2 : CONCRETE BATCH PLANT(S) & CONTROL EQUIPMENT "B" | | | | | S1.1 |
| HOPPER, DRIVE OVER, AGGREGATE, UP TO TWO HOPPERS A/N: 500957 Permit to Construct Issued: 10/09/09 | D146 | | | PM: (9) [RULE 405,2-7-1986] | A103.1, D323.3, E193.7, E193.8 |
| HOPPER, DRIVE OVER, SAND, 1 TOTAL A/N: 500957 Permit to Construct Issued: 10/09/09 | D147 | | | PM: (9) [RULE 405,2-7-1986] | A103.1, D323.3, E193.7, E193.8 |
| CONVEYOR, SAND, AGGREGATE, UP TO THREE (3) RADIAL STACKERS AND UP TO FIVE (5) FEEDS A/N: 500957 Permit to Construct Issued: 10/09/09 | D148 | | | PM: (9) [RULE 405,2-7-1986] | A103.1, D323.3, E193.7, E193.8 |
| HOPPER, FEED, SAND, AGGREGATE, UP TO FIVE (5) HOPPERS A/N: 500957 Permit to Construct Issued: 10/09/09 | D149 | | | PM: (9) [RULE 405,2-7-1986] | A103.1, D323.3, E193.7, E193.8 |
| HOPPER, HOLDING, SAND, AGGREGATE, UP TO THREE (3) A/N: 500957 Permit to Construct Issued: 10/09/09 | D151 | | | PM: (9) [RULE 405,2-7-1986] | A103.1, D323.3, E193.7, E193.8 |

* (1)(1A)(1B) Denotes RECLAIM emission factor

(3) Denotes RECLAIM concentration limit

(5)(5A)(5B) Denotes command and control emission limit

(7) Denotes NSR applicability limit

(9) See App B for Emission Limits

(2)(2A)(2B) Denotes RECLAIM emission rate

(4) Denotes BACT emission limit

(6) Denotes air toxic control rule limit

(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)

(10) See Section J for NESHAP/MACT requirements

** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



FACILITY PERMIT TO OPERATE LA CITY, DEPT OF AIRPORT

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|--|--------|-------------------------------------|---|---------------------------------|---------------------------------------|
| Process 9 : CONCRETE BATCH PLANT and CONCRETE/ASPHALT CRUSHING OPERATIONS | | | | | |
| HOPPER, WEIGH, SAND, AGGREGATE, UP TO THREE (3) HOPPERS A/N: 500957 Permit to Construct Issued: 10/09/09 | D162 | C145 | | PM: (9) [RULE 405,2-7-1986] | D323.3, E57.2, E193.7 |
| STORAGE SILO, FLY ASH, 1 TOTAL A/N: 500957 Permit to Construct Issued: 10/09/09 | D150 | C145 | | PM: (9) [RULE 405,2-7-1986] | D323.3, E57.2, E193.7 |
| STORAGE SILO, CEMENT, 1 TOTAL A/N: 500957 Permit to Construct Issued: 10/09/09 | D163 | C145 | | PM: (9) [RULE 405,2-7-1986] | D323.3, E57.2, E193.7 |
| HOPPER, WEIGH, FLY ASH/CEMENT UP TO (2) HOPPERS A/N: 500958 Permit to Construct Issued: 10/09/09 | D164 | C145 | | PM: (9) [RULE 405,2-7-1986] | D323.3, E57.2, E193.7 |
| CONVEYOR, CHARGE, SAND, AGGREGATE, CEMENT, FLYASH A/N: 500957 Permit to Construct Issued: 10/09/09 | D165 | C145 | | PM: (9) [RULE 405,2-7-1986] | D323.3, E57.2, E193.7 |
| MIXER, TILT, CONCRETE, UP TO TWO (2) MIXERS A/N: 500957 Permit to Construct Issued: 10/09/09 | D153 | C145 | | PM: (9) [RULE 405,2-7-1986] | D323.3, E57.2, E193.7 |
| BAGHOUSE, "B", WITH AT LEAST 500 SQUARE FEET FILTER AREA, PULSE JET CLEANING TYPE A/N: 500960 Permit to Construct Issued: 10/09/09 | C145 | D150 D153 D162 D163 D164 D165 | | PM: (9) [RULE 404,2-7-1986] | D12.8, D322.3, D323.3, E102.1, E193.7 |

* (1)(1A)(1B) Denotes RECLAIM emission factor

(3) Denotes RECLAIM concentration limit

(5)(5A)(5B) Denotes command and control emission limit

(7) Denotes NSR applicability limit

(9) See App B for Emission Limits

(2)(2A)(2B) Denotes RECLAIM emission rate

(4) Denotes BACT emission limit

(6) Denotes air toxic control rule limit

(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)

(10) See Section J for NESHAP/MACT requirements

** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



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The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|--|--------|--------------|---|---|--|
| Process 9 : CONCRETE BATCH PLANT and CONCRETE/ASPHALT CRUSHING OPERATIONS | | | | | |
| INTERNAL COMBUSTION ENGINE, R-219 EXEMPT-TIER 3 EPA CERT DIESEL ENG, MAXI RATING UP TO 500 BHP, UP TO TWO FRONT END LOADERS A/N: 500957 Permit to Construct Issued: 10/09/09 | D161 | | | NOX: 93.8 LBS/1000 GAL DIESEL (1) [RULE 2012,5-6- 2005] | C1.22, E193.7 |
| System 3 : CONCRETE/ASPHALT CRUSHING OPERATION | | | | | SI.2 |
| CONVEYOR, CONCRETE, ASPHALT, UP TO 14 CONVEYORS, INCLUDING STACKING CONVEYORS A/N: 500958 Permit to Construct Issued: 10/09/09 | D167 | | | PM: (9) [RULE 405,2-7-1986] | A103.1, D323.3, E193.7, E193.8, E202.1 |
| CRUSHER, UP TO 3 CRUSHERS,JAW, CONE, OR IMPACTOR, CONCRETE, ASPHALT A/N: 500958 Permit to Construct Issued: 10/09/09 | D168 | | | PM: (9) [RULE 405,2-7-1986] | A103.1, D323.3, E193.7, E193.8, E202.1 |
| SCREEN, UP TO 3 SCREENS, MULTIDECK, CONCRETE, ASPHALT A/N: 500958 Permit to Construct Issued: 10/09/09 | D169 | | | PM: (9) [RULE 405,2-7-1986] | A103.1, D323.3, E193.7, E193.8, E202.1 |
| INTERNAL COMBUSTION ENGINE, R-219 EXEMPT-TIER 3 EPA CERT DIESEL ENG, MAXI RATING UP TO 500 BHP, FRONT END LOADER A/N: 500958 Permit to Construct Issued: 10/09/09 | D170 | | | NOX: 93.8 LBS/1000 GAL DIESEL (1) [RULE 2012,5-6- 2005] | C1.22, E193.7 |

- * (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE
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The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|--|--------|--------------|---|---------------------------------|--|
| Process 9 : CONCRETE BATCH PLANT and CONCRETE/ASPHALT CRUSHING OPERATIONS | | | | | |
| HOPPER, FEED TYPE A/N: 500957 Permit to Construct Issued: 10/09/09 | D172 | | | PM: (9) | A103.1, D323.3, E193.7, E193.8, E202.1 |

* (1)(1A)(1B) Denotes RECLAIM emission factor

(3) Denotes RECLAIM concentration limit

(5)(5A)(5B) Denotes command and control emission limit

(7) Denotes NSR applicability limit

(9) See App B for Emission Limits

(2)(2A)(2B) Denotes RECLAIM emission rate

(4) Denotes BACT emission limit

(6) Denotes air toxic control rule limit

(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)

(10) See Section J for NESHAP/MACT requirements

** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE
LA CITY, DEPT OF AIRPORT**

SECTION H: DEVICE ID INDEX

**The following sub-section provides an index
to the devices that make up the facility
description sorted by device ID.**



**FACILITY PERMIT TO OPERATE
LA CITY, DEPT OF AIRPORT**

SECTION H: DEVICE ID INDEX

| Device Index For Section H | | | |
|----------------------------|--------------------|---------|--------|
| Device ID | Section H Page No. | Process | System |
| C136 | 2 | 9 | 1 |
| D137 | 1 | 9 | 1 |
| D138 | 1 | 9 | 1 |
| D139 | 1 | 9 | 1 |
| D140 | 1 | 9 | 1 |
| D141 | 2 | 9 | 1 |
| D142 | 1 | 9 | 1 |
| D144 | 2 | 9 | 1 |
| C145 | 4 | 9 | 2 |
| D146 | 3 | 9 | 2 |
| D147 | 3 | 9 | 2 |
| D148 | 3 | 9 | 2 |
| D149 | 3 | 9 | 2 |
| D150 | 4 | 9 | 2 |
| D151 | 3 | 9 | 2 |
| D153 | 4 | 9 | 2 |
| D155 | 3 | 9 | 1 |
| D156 | 1 | 9 | 1 |
| D157 | 2 | 9 | 1 |
| D158 | 2 | 9 | 1 |
| D159 | 2 | 9 | 1 |
| D161 | 5 | 9 | 2 |
| D162 | 4 | 9 | 2 |
| D163 | 4 | 9 | 2 |
| D164 | 4 | 9 | 2 |
| D165 | 4 | 9 | 2 |
| D167 | 5 | 9 | 3 |
| D168 | 5 | 9 | 3 |
| D169 | 5 | 9 | 3 |
| D170 | 5 | 9 | 3 |
| D172 | 6 | 9 | 3 |



FACILITY PERMIT TO OPERATE LA CITY, DEPT OF AIRPORT

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

FACILITY CONDITIONS

F14.2 The operator shall not purchase diesel fuel containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

[RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

F52.1 This facility is subject to the applicable requirements of the following rules or regulation(s):

For the purpose of this condition, "facility" shall be defined as Process 9 - Concrete Batch Plant and Concrete/Asphalt Crushing Operations.

District Rule 1157. The requirements include, but not limited to:

Maintaining fugitive dust emissions from any activity, equipment, storage pile, or disturbed surface area not to exceed a) 20% opacity, based on an average of 12 consecutive readings, using the SCAQMD Opacity Test Method No. 9B, or b) 50% opacity, based on five individual, consecutive readings, using the SCAQMD Opacity Test Method No. 9B, or c) any visible fugitive dust plume from exceeding 100 feet in any direction

Promptly removing any pile of material spillage on any internal paved roads, or maintaining in a stabilized condition the pile of material spillage with dust suppressants and remove it by the end of each day

Applying dust suppressants or using other dust control methods during loading, unloading, or transferring activities; at the conveyor including all transfer points where materials are released; at crushing activities; at the screening equipment including all discharge points; open storage piles; internal unpaved haul roads; unpaved roads and parking and staging areas

Posting signs at the two ends of the internal unpaved haul roads, stating that haul trucks shall use these roads unless traveling to the maintenance areas

Sweeping the internal paved roads with a street sweeper at the applicable interval specified by the rule

Using sweepers that are certified by Rule 1186

Installing and utilizing a rumble grate, a wheel washer, or a truck washer in accordance with applicable requirements specified by the rule

Keeping all records specified by the rule on-site for at least 5 years, and making such records available to the Executive Officer upon request

[RULE 1157, 9-8-2006]



FACILITY PERMIT TO OPERATE LA CITY, DEPT OF AIRPORT

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

SYSTEM CONDITIONS

S1.1 The operator shall limit the material processed to no more than 70000 cubic yard(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as those from both Systems 1 and 2 - Concrete Batch Plants A and B.

The operator shall maintain records in a manner approved by the District to demonstrate compliance with this condition.

The above throughput is the combined material processed for System 1 and 2.

Records shall be kept for at least 5 years in a manner approved by the District and made available to District personnel upon request.

The operator shall keep the storage piles sufficiently moist to prevent fugitive dust emissions

[RULE 1303(b)(1)-Modeling, 5-10-1996; RULE 1303(b)(1)-Modeling, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Systems subject to this condition : Process 9, System 1, 2]

S1.2 The operator shall limit the material processed to no more than 31200 ton(s) in any one calendar month.

For the purpose of this condition material processed from this system is from concrete and asphalt crushing operations

The operator shall maintain records in a manner approved by the District to demonstrate compliance with this condition.

Records shall be kept for at least 5 years in a manner approved by the District and made available to District personnel upon request.

[RULE 1303(b)(1)-Modeling, 5-10-1996; RULE 1303(b)(1)-Modeling, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 401, 3-2-1984; RULE 401, 11-9-2001; RULE 403, 4-2-2004; RULE 403, 6-3-2005]

[Systems subject to this condition : Process 9, System 3]

DEVICE CONDITIONS



FACILITY PERMIT TO OPERATE LA CITY, DEPT OF AIRPORT

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

A. Emission Limits

A103.1 The operator shall keep materials received, in process and stored sufficiently moist to prevent fugitive dust emissions.

[RULE 401, 3-2-1984; RULE 401, 11-9-2001; RULE 403, 4-2-2004; RULE 403, 6-3-2005]

[Devices subject to this condition : D137, D138, D139, D140, D142, D146, D147, D148, D149, D151, D167, D168, D169, D172]

C. Throughput or Operating Parameter Limits

C1.22 The operator shall limit the fuel usage to no more than 12000 gallon(s) in any one calendar month.

This limit shall be based on the total combined limit for equipment under devices D155, D161 and D170.

To comply with this condition, the operator shall maintain monthly fuel consumption records for each front end loader and for all five (5) loaders combined. Records shall be kept in a manner approved by the District.

Records shall be kept for at least 5 years in a manner approved by the District and made available to District personnel upon request.

For the purpose of this condition, fuel is defined as "Diesel".

[RULE 1303(b)(1)-Modeling, 5-10-1996; RULE 1303(b)(1)-Modeling, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D155, D161, D170]

D. Monitoring/Testing Requirements



FACILITY PERMIT TO OPERATE LA CITY, DEPT OF AIRPORT

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- D12.8 The operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the bags.

The differential pressure drop across the bags shall not exceed 5 inches water column

The pressure drop across the bags shall be monitored and recorded once a day on any day the baghouse is in operation

Records shall be kept for at least 5 years in a manner approved by the District and made available to District personnel upon request

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(1)-Modeling, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C136, C145]

- D322.3 The operator shall perform annual inspection of the equipment and filter media for leaks, broken or torn filter media, and improperly installed filter media.

To comply with this condition, the operator shall keep records for at least 5 years in a manner approved by the District and made available to District personnel upon request.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C136, C145]



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SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

D323.3 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on a quarterly basis, at least, unless the equipment did not operate during the entire quarter period. The routine quarterly inspection shall be conducted while the equipment is in operation and during daylight hours.

If any visible emissions (not including condensed water vapor) are detected that last more than three minutes in any one hour, the operator shall verify and certify within 24 hours that the equipment causing the emission and any associated air pollution control equipment are operating normally according to their design and standard procedures and under the same conditions under which compliance was achieved in the past, and either:

- 1). Take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit; or
- 2). Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emission Evaluation", within three business days and report any deviations to AQMD.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions;
- 3). Date and time visible emission was abated; and
- 4). All visible emission observation records by operator or a certified smoke reader.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C136, D137, D138, D139, D140, D141, D142, D144, C145, D146, D147, D148, D149, D150, D151, D153, D156, D157, D158, D159, D162, D163, D164, D165, D167, D168, D169, D172]

E. Equipment Operation/Construction Requirements



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The operator shall comply with the terms and conditions set forth below:

- E57.1 The operator shall vent this equipment to the fully operational baghouse under device number C136 whenever this equipment is in operation.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(1)-Modeling, 5-10-1996; RULE 1303(b)(1)-Modeling, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D141, D144, D156, D157, D158, D159]

- E57.2 The operator shall vent this equipment to the fully operational baghouse under device number C145 whenever this equipment is in-operation.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(1)-Modeling, 5-10-1996; RULE 1303(b)(1)-Modeling, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D150, D153, D162, D163, D164, D165]

- E102.1 The operator shall discharge dust collected in this equipment only into closed containers.

Or returned to the process and shall not be handled in a manner that may results in the re-release of the materials to the atmosphere

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C136, C145]



FACILITY PERMIT TO OPERATE LA CITY, DEPT OF AIRPORT

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The operator shall comply with the terms and conditions set forth below:

E193.7 The operator shall restrict the operation of this equipment according to the following requirements:

CEQA document has been approved by the Lead Agency for this project or any future project(s). The document has to be submitted to the District prior to operation of this equipment

The operator shall notify the District within 24 hours of the installation of the equipment and at least two weeks prior to the initial operation of the equipment. Notification shall be made in a manner approved by the District.

[RULE 1303, 5-10-1996; RULE 1303, 12-6-2002]

[Devices subject to this condition : C136, D137, D138, D139, D140, D141, D142, D144, C145, D146, D147, D148, D149, D150, D151, D153, D155, D156, D157, D158, D159, D161, D162, D163, D164, D165, D167, D168, D169, D170, D172]

E193.8 The operator shall operate and maintain this equipment according to the following requirements:

For the purpose of this condition, sand is excluded from the requirements of condition A103.1

[RULE 401, 3-2-1984; RULE 401, 9-11-1998; RULE 403, 4-2-2004; RULE 403, 6-3-2005]

[Devices subject to this condition : D137, D138, D139, D140, D142, D146, D147, D148, D149, D151, D167, D168, D169, D172]



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The operator shall comply with the terms and conditions set forth below:

E202.1 The operator shall clean and maintain this equipment according to the following specifications:

HIGH PRESSURE WATER SPRAYS OF AT LEAST 150 PSIG SHALL BE INSTALLED AND OPERATED AT THE FOLLOWING LOCATIONS:

- (A) FEED HOPPER
- (B) ALL CONVEYOR TRANSFER POINTS,
- (C) SCREEN FEED INLET AND OUTLET,
- (D) CRUSHER INLET AND OUTLET,

ALL FITTINGS AND HOSES OF THE HIGH PRESSURE WATER SPRAY SYSTEM SHALL BE KEPT TIGHT SUCH THAT THERE ARE NO LEAKS OR DRIPS. IF LEAKS OR DRIPS OCCUR, THEY MUST BE REPAIRED WITHIN 8 HOURS AFTER DETECTION.

A THOROUGH DESCRIPTION OF THE ACTUAL NOZZLE SIZES, LOCATIONS, AND FLOW RATES SHALL BE SUBMITTED TO THIS AGENCY WITHIN 30 DAYS AFTER INSTALLATION IS COMPLETED.

[RULE 401, 3-2-1984; RULE 401, 11-9-2001; RULE 403, 4-2-2004; RULE 403, 6-3-2005]

[Devices subject to this condition : D167, D168, D169, D172]



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SECTION K: TITLE V Administration

GENERAL PROVISIONS

1. This permit may be revised, revoked, reopened and reissued, or terminated for cause, or for failure to comply with regulatory requirements, permit terms, or conditions. [3004(a)(7)(C)]
2. This permit does not convey any property rights of any sort or any exclusive privilege. [3004(a)(7)(E)]

Permit Renewal and Expiration

3. (A) Except for solid waste incineration facilities subject to standards under Section 129(e) of the Clean Air Act, this permit shall expire five years from the date that this Title V permit is issued. The operator's right to operate under this permit terminates at midnight on this date, unless the facility is protected by an application shield in accordance with Rule 3002(b), due to the filing of a timely and complete application for a Title V permit renewal, consistent with Rule 3003. [3004(a)(2), 3004(f)]
- (B) A Title V permit for a solid waste incineration facility combusting municipal waste subject to standards under Section 129(e) of the Clean Air Act shall expire 12 years from the date of issuance unless such permit has been renewed pursuant to this regulation. These permits shall be reviewed by the Executive Officer at least every five years from the date of issuance. [3004(f)(2)]
4. To renew this permit, the operator shall submit to the Executive Officer an application for renewal at least 180 days, but not more than 545 days, prior to the expiration date of this permit. [3003(a)(6)]

Duty to Provide Information

5. The applicant for, or holder of, a Title V permit shall furnish, pursuant to Rule 3002(d) and (e), timely information and records to the Executive Officer or designee within a reasonable time as specified in writing by the Executive Officer or designee. [3004(a)(7)(F)]

Payment of Fees

6. The operator shall pay all required fees specified in Regulation III - Fees. [3004(a)(7)(G)]

Reopening for Cause

7. The Executive Officer will reopen and revise this permit if any of the following circumstances occur:
 - (A) Additional regulatory requirements become applicable with a remaining permit term of three or more years. Reopening is not required if the effective date of the requirement is later than the expiration date of this permit, unless the permit or any of its terms and conditions has been extended pursuant to paragraph (f)(4) of Rule 3004.



FACILITY PERMIT TO OPERATE LA CITY, DEPT OF AIRPORT

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- (B) The Executive Officer or EPA Administrator determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
- (C) The Executive Officer or EPA Administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements. [3005(g)(1)]

COMPLIANCE PROVISIONS

- 8. The operator shall comply with all regulatory requirements, and all permit terms and conditions, except:
 - (A) As provided for by the emergency provisions of condition no. 17 or condition no. 18, or
 - (B) As provided by an alternative operating condition granted pursuant to a federally approved (SIP-approved) Rule 518.2.

Any non-compliance with any federally enforceable permit condition constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or denial of a permit renewal application. Non-compliance may also be grounds for civil or criminal penalties under the California State Health and Safety Code. [3004(a)(7)(A)]
- 9. The operator shall allow the Executive Officer or authorized representative, upon presentation of appropriate credentials to:
 - (A) Enter the operator's premises where emission-related activities are conducted, or records are kept under the conditions of this permit;
 - (B) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
 - (C) Inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
 - (D) Sample or monitor at reasonable times, substances or parameters for the purpose of assuring compliance with the facility permit or regulatory requirements. [3004(a)(10)(B)]
- 10. All terms and conditions in this permit, including any provisions designed to limit a facility's potential to emit, are enforceable by the EPA Administrator and citizens under the federal Clean Air Act, unless the term or condition is designated as not federally enforceable. Each day during any portion of which a violation occurs is a separate offense. [3004(g)]



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11. A challenge to any permit condition or requirement raised by EPA, the operator, or any other person, shall not invalidate or otherwise affect the remaining portions of this permit. [3007(b)]
12. The filing of any application for a permit revision, revocation, or termination, or a notification of planned changes or anticipated non-compliance does not stay any permit condition. [3004(a)(7)(D)]
13. It shall not be a defense for a person in an enforcement action, including those listed in Rule 3002(c)(2), that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit, except as provided for in "Emergency Provisions" of this section. [3004(a)(7)(H)]
14. The operator shall not build, erect, install, or use any equipment, the use of which, without resulting in a reduction in the total release of air contaminants to atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the California Health and Safety Code or of AQMD rules. This rule shall not apply to cases in which the only violation involved is of Section 41700 of the California Health and Safety Code, or Rule 402 of AQMD Rules. [408]
15. Nothing in this permit or in any permit shield can alter or affect:
 - (A) Under Section 303 of the federal Clean Air Act, the provisions for emergency orders;
 - (B) The liability of the operator for any violation of applicable requirements prior to or at the time of permit issuance;
 - (C) The applicable requirements of the Acid Rain Program, Regulation XXXI;
 - (D) The ability of EPA to obtain information from the operator pursuant to Section 114 of the federal Clean Air Act;
 - (E) The applicability of state or local requirements that are not "applicable requirements", as defined in Rule 3000, at the time of permit issuance but which do apply to the facility, such as toxics requirements unique to the State; and
 - (F) The applicability of regulatory requirements with compliance dates after the permit issuance date. [3004(c)(3)]
16. For any portable equipment that requires an AQMD or state permit or registration, excluding a) portable engines, b) military tactical support equipment and c) AQMD-permitted portable equipment that are not a major source, are not located at the facility for more than 12 consecutive months after



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commencing operation, and whose operation does not conflict with the terms or conditions of this Title V permit: 1) the facility operator shall keep a copy of the AQMD or state permit or registration; 2) the equipment operator shall comply with the conditions on the permit or registration and all other regulatory requirements; and 3) the facility operator shall treat the permit or registration as a part of its Title V permit, subject to recordkeeping, reporting and certification requirements. [3004(a)(1)]



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EMERGENCY PROVISIONS

17. An emergency¹ constitutes an affirmative defense to an action brought for non-compliance with a technology-based emission limit only if:
- (A) Properly signed, contemporaneous operating records or other credible evidence demonstrate that:
 - (1) An emergency occurred and the operator can identify the cause(s) of the emergency;
 - (2) The facility was operated properly (i.e. operated and maintained in accordance with the manufacturer's specifications, and in compliance with all regulatory requirements or a compliance plan), before the emergency occurred;
 - (3) The operator took all reasonable steps to minimize levels of emissions that exceeded emissions standard, or other requirements in the permit; and,
 - (4) The operator submitted a written notice of the emergency to the AQMD within two working days of the time when the emissions limitations were exceeded due to the emergency. The notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and
 - (B) The operator complies with the breakdown provisions of Rule 430 - Breakdown Provisions, or subdivision (i) of Rule 2004 - Requirements, whichever is applicable. [3002(g), 430, 2004(i)]
18. The operator is excused from complying with any regulatory requirement that is suspended by the Executive Officer during a state of emergency or state of war emergency, in accordance with Rule 118 - Emergencies. [118]

¹ "Emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the operator, including acts of God, which: (A) requires immediate corrective action to restore normal operation; and (B) causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency; and (C) is not caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.



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RECORDKEEPING PROVISIONS

19. In addition to any other recordkeeping requirements specified elsewhere in this permit, the operator shall keep records of required monitoring information, where applicable, that include:
- (A) The date, place as defined in the Title V permit, and time of sampling or measurements;
 - (B) The date(s) analyses were performed;
 - (C) The company or entity that performed the analyses;
 - (D) The analytical techniques or methods used;
 - (E) The results of such analyses; and
 - (F) The operating conditions as existing at the time of sampling or measurement. [3004(a)(4)(B)]
20. The operator shall maintain records pursuant to Rule 109 and any applicable material safety data sheet (MSDS) for any equipment claimed to be exempt from a written permit by Rule 219 based on the information in those records. [219(t)]
21. The operator shall keep all records of monitoring data required by this permit or by regulatory requirements for a period of at least five years from the date of the monitoring sample, measurement, report, or application. [3004(a)(4)(E)]

REPORTING PROVISIONS

22. The operator shall comply with the following requirements for prompt reporting of deviations:
- (A) Breakdowns shall be reported as required by Rule 430 - Breakdown Provisions or subdivision (i) of Rule 2004 - Requirements, whichever is applicable.
 - (B) Other deviations from permit or applicable rule emission limitations, equipment operating conditions, or work practice standards, determined by observation or by any monitoring or testing required by the permit or applicable rules that result in emissions greater than those allowed by the permit or applicable rules shall be reported within 72 hours (unless a shorter reporting period is specified in an applicable State or Federal Regulation) of discovery of the deviation by contacting AQMD enforcement personnel assigned to this facility or otherwise calling (800) CUT-SMOG.



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- (C) A written report of such deviations reported pursuant to (B), and any corrective actions or preventative measures taken, shall be submitted to AQMD, in an AQMD approved format, within 14 days of discovery of the deviation.
 - (D) All other deviations shall be reported with the monitoring report required by condition no. 23. [3004(a)(5)]
23. Unless more frequent reporting of monitoring results are specified in other permit conditions or in regulatory requirements, the operator shall submit reports of any required monitoring to the AQMD at least twice per year. The report shall include a) a statement whether all monitoring required by the permit was conducted; and b) identification of all instances of deviations from permit or regulatory requirements. A report for the first six calendar months of the year is due by August 31 and a report for the last six calendar months of the year is due by February 28. [3004(a)(4)(F)]
24. The operator shall submit to the Executive Officer and to the Environmental Protection Agency (EPA), an annual compliance certification. For RECLAIM facilities, the certification is due when the Annual Permit Emissions Program (APEP) report is due and shall cover the same reporting period. For other facilities, the certification is due on March 1 for the previous calendar year. The certification need not include the period preceding the date the initial Title V permit was issued. Each compliance certification shall include:
- (A) Identification of each permit term or condition that is the basis of the certification;
 - (B) The compliance status during the reporting period;
 - (C) Whether compliance was continuous or intermittent;
 - (D) The method(s) used to determine compliance over the reporting period and currently, and
 - (E) Any other facts specifically required by the Executive Officer to determine compliance.
- The EPA copy of the certification shall be sent to: Director of the Air Division Attn: Air-3 USEPA, Region IX 75 Hawthorne St. San Francisco, CA 94105 [3004(a)(10)(E)]
25. All records, reports, and documents required to be submitted by a Title V operator to AQMD or EPA shall contain a certification of accuracy consistent with Rule 3003(c)(7) by a responsible official (as defined in Rule 3000). [3004(a)(12)]



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PERIODIC MONITORING

26. All periodic monitoring required by this permit pursuant to Rule 3004(a)(4)(c) is based on the requirements and justifications in the AQMD document "Periodic Monitoring Guidelines for Title V Facilities" or in case-by-case determinations documented in the Title V application file. [3004(a)(4)]



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FACILITY RULES

This facility is subject to the following rules and regulations:

With the exception of Rule 402, 473, 477, 1118 and Rules 1401 through 1420, the following rules that are designated as non-federally enforceable are pending EPA approval as part of the state implementation plan. Upon the effective date of that approval, the approved rule(s) will become federally enforceable, and any earlier versions of those rules will no longer be federally enforceable.

| RULE SOURCE | Adopted/Amended Date | FEDERAL Enforceability |
|----------------------|----------------------|---------------------------|
| RULE 109 | 5-2-2003 | Federally enforceable |
| RULE 1107 | 1-6-2006 | Non federally enforceable |
| RULE 1107 | 11-9-2001 | Federally enforceable |
| RULE 1110.2 | 6-3-2005 | Non federally enforceable |
| RULE 1113 | 11-8-1996 | Federally enforceable |
| RULE 1113 | 7-13-2007 | Non federally enforceable |
| RULE 1136 | 6-14-1996 | Federally enforceable |
| RULE 1145 | 12-3-2004 | Non federally enforceable |
| RULE 1145 | 2-14-1997 | Federally enforceable |
| RULE 1146 | 11-17-2000 | Federally enforceable |
| RULE 1146 | 9-5-2008 | Non federally enforceable |
| RULE 1146.1 | 5-13-1994 | Federally enforceable |
| RULE 1146.1 | 9-5-2008 | Non federally enforceable |
| RULE 1146.2 | 1-7-2005 | Non federally enforceable |
| RULE 1151 | 12-11-1998 | Federally enforceable |
| RULE 1151 | 12-2-2005 | Non federally enforceable |
| RULE 1157 | 9-8-2006 | Non federally enforceable |
| RULE 1168 | 1-7-2005 | Non federally enforceable |
| RULE 1168 | 10-3-2003 | Federally enforceable |
| RULE 1170 | 5-6-1988 | Non federally enforceable |
| RULE 1171 | 11-7-2003 | Federally enforceable |
| RULE 1171 | 2-1-2008 | Non federally enforceable |
| RULE 1173 | 5-13-1994 | Federally enforceable |
| RULE 1173 | 6-1-2007 | Non federally enforceable |
| RULE 118 | 12-7-1995 | Non federally enforceable |
| RULE 1196 | 9-9-2005 | Non federally enforceable |
| RULE 1303 | 5-10-1996 | Federally enforceable |
| RULE 1303(a)(1)-BACT | 12-6-2002 | Non federally enforceable |
| RULE 1303(a)(1)-BACT | 5-10-1996 | Federally enforceable |



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| RULE SOURCE | Adopted/Amended Date | FEDERAL Enforceability |
|--|-----------------------------|-------------------------------|
| RULE 1303(b)(1)-Modeling | 12-6-2002 | Non federally enforceable |
| RULE 1303(b)(1)-Modeling | 5-10-1996 | Federally enforceable |
| RULE 1303(b)(2)-Offset | 12-6-2002 | Non federally enforceable |
| RULE 1303(b)(2)-Offset | 5-10-1996 | Federally enforceable |
| RULE 1303(b)(3) | 5-10-1996 | Federally enforceable |
| RULE 1304(a)-Modeling and Offset Exemption | 6-14-1996 | Federally enforceable |
| RULE 1401 | 3-7-2008 | Non federally enforceable |
| RULE 1401 | 5-2-2003 | Non federally enforceable |
| RULE 1403 | 10-5-2007 | Non federally enforceable |
| RULE 1411 | 3-1-1991 | Non federally enforceable |
| RULE 1415 | 10-14-1994 | Non federally enforceable |
| RULE 1418 | 9-10-1999 | Non federally enforceable |
| RULE 1470 | 3-4-2005 | Non federally enforceable |
| RULE 1470 | 6-1-2007 | Non federally enforceable |
| RULE 2002 | 1-7-2005 | Federally enforceable |
| RULE 2005 | 4-9-1999 | Federally enforceable |
| RULE 2005 | 5-6-2005 | Federally enforceable |
| RULE 2009.1 | 5-11-2001 | Non federally enforceable |
| RULE 2012 | 1-7-2005 | Federally enforceable |
| RULE 2012 | 5-6-2005 | Federally enforceable |
| RULE 204 | 10-8-1993 | Federally enforceable |
| RULE 217 | 1-5-1990 | Federally enforceable |
| RULE 219 | 6-1-2007 | Non federally enforceable |
| RULE 219 | 9-4-1981 | Federally enforceable |
| RULE 2202 | 2-6-2004 | Non federally enforceable |
| RULE 3002 | 11-14-1997 | Federally enforceable |
| RULE 3003 | 11-14-1997 | Federally enforceable |
| RULE 3003 | 3-16-2001 | Non federally enforceable |
| RULE 3004(a)(4)-Periodic Monitoring | 12-12-1997 | Federally enforceable |
| RULE 3005 | 11-14-1997 | Federally enforceable |
| RULE 3005 | 3-16-2001 | Non federally enforceable |
| RULE 3007 | 10-8-1993 | Federally enforceable |
| RULE 304 | 6-9-2006 | Non federally enforceable |
| RULE 401 | 11-9-2001 | Non federally enforceable |
| RULE 401 | 3-2-1984 | Federally enforceable |
| RULE 402 | 5-7-1976 | Non federally enforceable |
| RULE 404 | 2-7-1986 | Federally enforceable |



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| RULE SOURCE | Adopted/Amended Date | FEDERAL Enforceability |
|---|-----------------------------|-------------------------------|
| RULE 405 | 2-7-1986 | Federally enforceable |
| RULE 407 | 4-2-1982 | Federally enforceable |
| RULE 408 | 5-7-1976 | Federally enforceable |
| RULE 409 | 8-7-1981 | Federally enforceable |
| RULE 430 | 7-12-1996 | Non federally enforceable |
| RULE 431.1 | 6-12-1998 | Federally enforceable |
| RULE 431.2 | 5-4-1990 | Federally enforceable |
| RULE 431.2 | 9-15-2000 | Non federally enforceable |
| RULE 442 | 12-15-2000 | Federally enforceable |
| RULE 461 | 3-7-2008 | Non federally enforceable |
| RULE 461 | 6-15-2001 | Non federally enforceable |
| RULE 461 | 6-3-2005 | Federally enforceable |
| RULE 463 | 5-6-2005 | Federally enforceable |
| RULE 481 | 1-11-2002 | Federally enforceable |
| 40CFR 60 Subpart GG | 3-6-1981 | Federally enforceable |
| RULE 701 | 6-13-1997 | Federally enforceable |
| 40CFR 82 Subpart B | 7-14-1992 | Federally enforceable |
| 40CFR 82 Subpart F | 5-14-1993 | Federally enforceable |
| CARB ORDER G-70-193 (H&S Code 39607(d)) | 4-21-2000 | Non federally enforceable |



**FACILITY PERMIT TO OPERATE
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**APPENDIX A: NOX AND SOX EMITTING EQUIPMENT EXEMPT FROM WRITTEN
PERMIT PURSUANT TO RULE 219**

1. ICE, GASOLINE
2. ICE, DIESEL
3. ICE, PROPANE
4. ICE, NATURAL GAS
5. BOILER, NATURAL GAS



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APPENDIX B: RULE EMISSION LIMITS
[RULE 1107 1-6-2006]

Except as otherwise provided in Rule 1107

(1) VOC Content of Coatings

A person shall not apply to metal parts and products subject to the provisions of this rule any coatings, including any VOC-containing materials added to the original coating supplied by the manufacturer, which contain VOC in excess of the limits specified below:

| VOC LIMITS | | | | | | | | |
|---|------------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|
| Less Water and Less Exempt Compounds | | | | | | | | |
| Effective Dates | | | | | | | | |
| Coating | Air-Dried | | | | Baked | | | |
| | gm/l | | lb/gal | | gm/l | | lb/gal | |
| | Current | 7/1/07 | Current | 7/1/07 | Current | 7/1/07 | Current | 7/1/07 |
| General One-Component | 275 | 275 | 2.3 | 2.3 | 275 | 275 | 2.3 | 2.3 |
| General Multi-Component | 340 | 340 | 2.8 | 2.8 | 275 | 275 | 2.3 | 2.3 |
| Military Specification | 340 | 340 | 2.8 | 2.8 | 275 | 275 | 2.3 | 2.3 |
| Etching Filler | 420 | 420 | 3.5 | 3.5 | 420 | 420 | 3.5 | 3.5 |
| Solar-Absorbent | 420 | 420 | 3.5 | 3.5 | 360 | 360 | 3.0 | 3.0 |
| Heat-Resistant | 420 | 420 | 3.5 | 3.5 | 360 | 360 | 3.0 | 3.0 |
| Extreme High-Gloss | 420 | 340 | 3.5 | 2.8 | 360 | 360 | 3.0 | 3.0 |
| Metallic | 420 | 420 | 3.5 | 3.5 | 420 | 420 | 3.5 | 3.5 |



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APPENDIX B: RULE EMISSION LIMITS
[RULE 1107 1-6-2006]

| VOC LIMITS | | | | | | | | |
|---|------------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|
| Less Water and Less Exempt Compounds | | | | | | | | |
| Effective Dates, cont. | | | | | | | | |
| Coating | Air-Dried | | | | Baked | | | |
| | gm/l | | lb/gal | | gm/l | | lb/gal | |
| | Current | 7/1/07 | Current | 7/1/07 | Current | 7/1/07 | Current | 7/1/07 |
| Extreme Performance | 420 | 420 | 3.5 | 3.5 | 360 | 360 | 3.0 | 3.0 |
| Prefabricated Architectural One-Component | 420 | 275 | 3.5 | 2.3 | 275 | 275 | 2.3 | 2.3 |
| Prefabricated Architectural Multi-Component | 420 | 340 | 3.5 | 2.8 | 275 | 275 | 2.3 | 2.3 |
| Touch Up | 420 | 420 | 3.5 | 3.5 | 360 | 360 | 3.0 | 3.0 |
| Repair | 420 | 420 | 3.5 | 3.5 | 360 | 360 | 3.0 | 3.0 |
| Silicone Release | 420 | 420 | 3.5 | 3.5 | 420 | 420 | 3.5 | 3.5 |
| High-Performance Architectural | 420 | 420 | 3.5 | 3.5 | 420 | 420 | 3.5 | 3.5 |
| Camouflage | 420 | 420 | 3.5 | 3.5 | 420 | 420 | 3.5 | 3.5 |
| Vacuum-Metalizing | 420 | 420 | 3.5 | 3.5 | 420 | 420 | 3.5 | 3.5 |
| Mold-Seal | 420 | 420 | 3.5 | 3.5 | 420 | 420 | 3.5 | 3.5 |
| High-Temperature | 420 | 420 | 3.5 | 3.5 | 420 | 420 | 3.5 | 3.5 |
| Electric-Insulating Varnish | 420 | 420 | 3.5 | 3.5 | 420 | 420 | 3.5 | 3.5 |
| Pan Backing | 420 | 420 | 3.5 | 3.5 | 420 | 420 | 3.5 | 3.5 |
| Pretreatment Coatings | 420 | 420 | 3.5 | 3.5 | 420 | 420 | 3.5 | 3.5 |

- (2) A person shall not use VOC-containing materials which have a VOC content of more than 200 grams per liter of material for stripping any coating governed by this rule.



FACILITY PERMIT TO OPERATE
LA CITY, DEPT OF AIRPORT

APPENDIX B: RULE EMISSION LIMITS
[RULE 1107 8-14-1998]

Except as otherwise provided in Rule 1107

(1) VOC Content of Coatings

The operator shall not apply to metal parts and products subject to the provisions of this rule any coatings, including any VOC-containing materials added to the original coating supplied by the manufacturer, which contain VOC in excess of the limits specified below:

| LIMITS | | | | |
|--|-------------------------|------------------------|---------------------|------------------------|
| Grams of VOC Per Liter of Coating, Less Water and Less Exempt Compounds | | | | |
| <u>Coating</u> | <u>Air Dried</u> | <u>(lb/gal)</u> | <u>Baked</u> | <u>(lb/gal)</u> |
| General | 340 | (2.8) | 275 | (2.3) |
| <u>Effective 3/1/1999</u> | | | | |
| One-Component | 275 | (2.3) | 275 | (2.3) |
| Multi-Component | 340 | (2.8) | 275 | (2.3) |
| Military Specification | 340 | (2.8) | 275 | (2.3) |
| Etching Filler | 420 | (3.5) | 420 | (3.5) |
| Solar-Absorbent | 420 | (3.5) | 360 | (3.0) |
| Heat-Resistant | 420 | (3.5) | 360 | (3.0) |
| Extreme High-Gloss | 420 | (3.5) | 360 | (3.0) |
| Metallic | 420 | (3.5) | 420 | (3.5) |
| Extreme Performance | 420 | (3.5) | 360 | (3.0) |
| Prefabricated Architectural Component | 420 | (3.5) | 275 | (2.3) |
| Touch Up | 420 | (3.5) | 360 | (3.0) |
| Repair | 420 | (3.5) | 360 | (3.0) |
| Silicone Release | 420 | (3.5) | 420 | (3.5) |
| High Performance Architectural | 420 | (3.5) | 420 | (3.5) |
| Camouflage | 420 | (3.5) | 420 | (3.5) |
| Vacuum-Metalizing | 420 | (3.5) | 420 | (3.5) |
| Mold-Seal | 420 | (3.5) | 420 | (3.5) |
| High-Temperature | 420 | (3.5) | 420 | (3.5) |
| Electric-Insulating Varnish | 420 | (3.5) | 420 | (3.5) |
| Pan Backing | 420 | (3.5) | 420 | (3.5) |
| Pretreatment Coatings | 420 | (3.5) | 420 | (3.5) |



FACILITY PERMIT TO OPERATE
LA CITY, DEPT OF AIRPORT

APPENDIX B: RULE EMISSION LIMITS
[RULE 1107 8-14-1998]

- (2) The operator shall not use VOC-containing materials which have a VOC content of more than 200 grams per liter of material for stripping any coating governed by this rule.



FACILITY PERMIT TO OPERATE LA CITY, DEPT OF AIRPORT

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 11-8-1996]

- (1) Except as provided in paragraphs (c)(2), (c)(3), and (c)(4) of Rule 1113, the operator shall not supply, sell, offer for sale, apply, or solicit the application of, any architectural coating which, at the time of sale or manufacture, contains more than 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, and less any colorant added to tint bases, or manufacture, blend, or repackage such a coating for use within the District.
- (2) Except as provided in paragraphs (c)(3) and (c)(4) of Rule 1113, the operator shall not supply, sell, offer for sale, apply, solicit the application of, manufacture, blend, or repackage, for use within the District, any architectural coating listed in the Table of Standards which contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified.

TABLE OF STANDARDS

VOC LIMITS

Grams of VOC Per Liter of Coating,
Less Water And Less Exempt Compounds

| COATING | Limit* | Effective Date of Adoption | Effective 1/1/1998 | Effective 1/1/1999 | Effective 7/1/2001 | Effective 1/1/2005 | Effective 7/1/2008 |
|------------------------------|--------|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Bond Breakers | 350 | | | | | | |
| Clear Wood Finishes | | | | | | | |
| Varnish | 350 | | | | | | |
| Sanding Sealers | 350 | | | | | | |
| Lacquer | 680 | | 550 | | | 275 | |
| Concrete-Curing Compounds | 350 | | | | | | |
| Dry-Fog Coatings | 400 | | | | | | |
| Fire-proofing Exterior | 350 | 450 | | 350 | | | |
| Coatings | | | | | | | |
| Fire-Retardant Coatings | | | | | | | |
| Clear | 650 | | | | | | |
| Pigmented | 350 | | | | | | |
| Flats | 250 | | | | | | |
| Graphic Arts (Sign) Coatings | 500 | | | | | 100 | 50 |
| Industrial Maintenance | | | | | | | |



FACILITY PERMIT TO OPERATE
LA CITY, DEPT OF AIRPORT

APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 11-8-1996]

| | | | | | | |
|-----------------------------|-----|-----|-----|-----|-----|--|
| Primers and Topcoats | | | | | | |
| Alkyds | 420 | | | | | |
| Catalyzed Epoxy | 420 | | | | | |
| Bituminous Coatings | 420 | | | | | |
| Materials | | | | | | |
| Inorganic Polymers | 420 | | | | | |
| Vinyl Chloride Polymers | 420 | | | | | |
| Chlorinated Rubber | 420 | | | | | |
| Acrylic Polymers | 420 | | | | | |
| Urethane Polymers | 420 | | | | | |
| Silicones | 420 | | | | | |
| Unique Vehicles | 420 | | | | | |
| Japans/Faux Finishing | 350 | 700 | | 350 | | |
| Coatings | | | | | | |
| Magnesite Cement Coatings | 600 | | | 450 | | |
| Mastic Coatings | 300 | | | | | |
| Metallic Pigmented Coatings | 500 | | | | | |
| Multi-Color Coatings | 420 | | 250 | | | |
| Pigmented Lacquer | 680 | | 550 | | 275 | |
| Pre-Treatment Wash Primers | 780 | | | | | |
| Primers, Sealers, and | 350 | | | | | |
| Undercoaters | | | | | | |
| Quick-Dry Enamels | 400 | | | | | |
| Roof Coatings | 300 | | | | | |
| Shellac | | | | | | |
| Clear, | 730 | | | | | |
| Pigmented | 550 | | | | | |
| Stains | 350 | | | | | |
| Swimming Pool Coatings | | | | | | |
| Repair | 650 | | | | | |
| Other | 340 | | | | | |
| Traffic Coatings | 250 | | 150 | | | |
| Waterproofing Sealers | 400 | | | | | |
| Wood Preservatives | | | | | | |
| Below-Ground | 350 | | | | | |
| Other | 350 | | | | | |

* The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards



FACILITY PERMIT TO OPERATE
LA CITY, DEPT OF AIRPORT

APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 11-8-1996]

TABLE OF STANDARDS (cont.)

VOC LIMITS

Grams of VOC Per Liter of Material

| COATING | Limit |
|--------------------|-------|
| Low-Solids Coating | 120 |



FACILITY PERMIT TO OPERATE

LA CITY, DEPT OF AIRPORT

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 7-13-2007]

- (1) Except as provided in paragraphs (c)(2), (c)(3), (c)(4), and specified coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or repackage any architectural coating for use in the District which, at the time of sale or manufacture, contains more than 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, and less any colorant added to tint bases, and no person shall apply or solicit the application of any architectural coating within the District that exceeds 250 grams of VOC per liter of coating as calculated in this paragraph.
- (2) Except as provided in paragraphs (c)(3), (c)(4), and designated coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or repackage, for use within the District, any architectural coating listed in the Table of Standards which contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified, and no person shall apply or solicit the application of any architectural coating within the District that exceeds the VOC limit as specified in this paragraph. No person shall apply or solicit the application within the District of any industrial maintenance coatings, except anti-graffiti coatings, for residential use or for use in areas such as office space and meeting rooms of industrial, commercial or institutional facilities not exposed to such extreme environmental conditions described in the definition of industrial maintenance coatings; or of any rust-preventative coating for industrial use, unless such a rust preventative coating complies with the Industrial Maintenance Coating VOC limit specified in the Table of Standards.



AQMD

FACILITY PERMIT TO OPERATE

LA CITY, DEPT OF AIRPORT

APPENDIX B: RULE EMISSION LIMITS **[RULE 1113 7-13-2007]**

TABLE OF STANDARDS **VOC LIMITS**

**Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds**

| COATING CATEGORY | Ceiling Limit* | Current Limit | Effective Date | | | | | |
|---|----------------|---------------|----------------|--------|--------|--------|--------|--------|
| | | | 1/1/03 | 1/1/04 | 1/1/05 | 7/1/06 | 7/1/07 | 7/1/08 |
| Bond Breakers | 350 | | | | | | | |
| Clear Wood Finishes | 350 | | | | | 275 | | |
| Varnish | 350 | | | | | 275 | | |
| Sanding Sealers | 350 | | | | | 275 | | |
| Lacquer | 680 | 550 | | | 275 | | | |
| Clear Brushing Lacquer | 680 | | | | 275 | | | |
| Concrete-Curing Compounds | 350 | | | | | | 100 | |
| Concrete-Curing Compounds For Roadways and Bridges** | 350 | | | | | | | |
| Dry-Fog Coatings | 400 | | | | | | 150 | |
| Fire-Proofing Exterior Coatings | 450 | 350 | | | | | | |
| Fire-Retardant Coatings*** | | | | | | | | |
| Clear | 650 | | | | | | | |
| Pigmented | 350 | | | | | | | |
| Flats | 250 | 100 | | | | | | 50 |
| Floor Coatings | 420 | | 100 | | | 50 | | |
| Graphic Arts (Sign) Coatings | 500 | | | | | | | |
| Industrial Maintenance (IM) Coatings | 420 | | | 250 | | 100 | | |
| High Temperature IM Coatings | | | 420 | | | | | |
| Zinc-Rich IM Primers | 420 | | 340 | | | 100 | | |
| Japans/Faux Finishing Coatings | 700 | 350 | | | | | | |
| Magnesite Cement Coatings | 600 | 450 | | | | | | |
| Mastic Coatings | 300 | | | | | | | |
| Metallic Pigmented Coatings | 500 | | | | | | | |
| Multi-Color Coatings | 420 | 250 | | | | | | |
| Nonflat Coatings | 250 | | 150 | | | 50 | | |
| Nonflat High Gloss | 250 | | 150 | | | | 50 | |



FACILITY PERMIT TO OPERATE
LA CITY, DEPT OF AIRPORT

APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 7-13-2007]

| COATING CATEGORY | Ceiling Limit* | Current Limit | Effective Date | | | | | |
|--|----------------|---------------|----------------|--------|--------|--------|--------|--------|
| | | | 1/1/03 | 1/1/04 | 1/1/05 | 7/1/06 | 7/1/07 | 7/1/08 |
| Pigmented Lacquer | 680 | 550 | | | 275 | | | |
| Pre-Treatment Wash Primers | 780 | | 420 | | | | | |
| Primers, Sealers, and Undercoaters | 350 | | 200 | | | 100 | | |
| Quick-Dry Enamels | 400 | | 250 | | | 150 | 50 | |
| Quick-Dry Primers, Sealers, and Undercoaters | 350 | | 200 | | | 100 | | |
| Recycled Coatings | | | 250 | | | | | |
| Roof Coatings | 300 | | 250 | | 50 | | | |
| Roof Coatings, Aluminum | 500 | | | | 100 | | | |
| Roof Primers, Bituminous | 350 | | 350 | | | | | |
| Rust Preventative Coatings | 420 | | 400 | | | 100 | | |
| Shellac | | | | | | | | |
| Clear | 730 | | | | | | | |
| Pigmented | 550 | | | | | | | |
| Specialty Primers | 350 | | | | | 250 | 100 | |
| Stains | 350 | | 250 | | | | 100 | |
| Stains, Interior | 250 | | | | | | | |
| Swimming Pool Coatings | | | | | | | | |
| Repair | 650 | | 340 | | | | | |
| Other | 340 | | | | | | | |
| Traffic Coatings | 250 | 150 | | | | | 100 | |
| Waterproofing Sealers | 400 | | 250 | | | 100 | | |
| Waterproofing Concrete/Masonry Sealers | 400 | | | | | 100 | | |
| Wood Preservatives | | | | | | | | |
| Below-Ground | 350 | | | | | | | |
| Other | 350 | | | | | | | |

* The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards.

** Does not include compounds used for curbs and gutters, sidewalks, islands, driveways and other miscellaneous concrete areas.

*** The Fire-Retardant Coating category will be eliminated on January 1, 2007 and subsumed by the coating category for which they are formulated.



FACILITY PERMIT TO OPERATE
LA CITY, DEPT OF AIRPORT

APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 7-13-2007]

TABLE OF STANDARDS (cont.)
VOC LIMITS

Grams of VOC Per Liter of Material

| COATING | Limit |
|--------------------|-------|
| Low-Solids Coating | 120 |



FACILITY PERMIT TO OPERATE LA CITY, DEPT OF AIRPORT

APPENDIX B: RULE EMISSION LIMITS [RULE 1136 6-14-1996]

Except as otherwise provided in Rule 1136

- (a) The operator shall not apply any coating to a wood product which has a VOC content, including any VOC-containing material added to the original coating supplied by the manufacturer, which exceeds the applicable limit specified below:

| COATING | VOC LIMITS Grams Per Liter (lb/gal) of Coating, [lbs VOC/lb of solids], Less Water and Less Exempt Compounds | | |
|--|--|------------------|--------------------------|
| | Current Limit | | On and After 7/1/2005 |
| | I | or II | |
| Clear Sealers | 550 (4.6) [1.39] | 680 (5.7) [3.36] | 275 (2.3) [0.36] |
| Clear Topcoat | 550 (4.6) [1.37] | 275 (2.3) [0.35] | 275 (2.3) [0.35] |
| Pigmented Primers, Sealers & Undercoats | 550 (4.6) [1.06] | 600 (5.0) [1.08] | 275 (2.3) [0.21] |
| Pigmented Topcoats | 550 (4.6) [1.10] | 275 (2.3) [0.25] | 275 (2.3) [0.25] |

The operator shall use coatings on a wood product that comply with either all VOC limits in column I or all VOC limits in column II. The operator that applies a primer, sealer or undercoat, but not a topcoat, to a wood product, shall be subject to column I for that wood product.

- (2) Notwithstanding the requirements of clause (a)(1), an operator that applies a topcoat and a primer, sealer or undercoat to a shutter may, until July 1, 2005, choose to comply with the VOC limits specified below for that shutter:

| VOC LIMITS Grams Per Liter, (lb/gal) of Coating, [lbs VOC/lb of solids], Less Water and Less Exempt Compounds | |
|---|------------------|
| COATING | |
| Clear Sealers | 275 (2.3) [0.36] |
| Clear Topcoat | 680 (5.7) [2.99] |
| Pigmented Primers, Sealers & Undercoats | 275 (2.3) [0.33] |
| Pigmented Topcoats | 600 (5.0) [1.38] |



FACILITY PERMIT TO OPERATE
LA CITY, DEPT OF AIRPORT

APPENDIX B: RULE EMISSION LIMITS
[RULE 1136 6-14-1996]

(3)

VOC LIMITS

Grams Per Liter, (lb/gal) of Coating, [lbs VOC/lb of solids],
Less Water and Less Exempt Compounds

| <u>COATING</u> | <u>Current Limit</u> | <u>On and After</u> <u>7/1/2005</u> |
|-----------------------------------|----------------------|--|
| Barrier Coat - Plastic Components | 760 (6.3) [3.9] | 275 (2.3) [0.28] |
| Composite Wood Edge Filler | 550 (4.6) [1.15] | 275 (2.3) [0.31] |
| Extreme Performance Coatings | 420 (3.5) [0.51] | 275 (2.3) [0.33] |
| Fillers | 500 (4.2) [0.66] | 275 (2.3) [0.18] |
| High-Solid Stains | 550 (4.6) [1.23] | 350 (2.9) [0.42] |
| Inks | 500 (4.2) [0.96] | 500 (4.2) [0.96] |
| Mold-Seal Coatings | 750 (6.3) [4.2] | 750 (6.3) [4.2] |
| Multi-Colored Coatings | 685 (5.7) [2.6] | 275 (2.3) [0.33] |

VOC LIMITS

Grams Per Liter (lb/gal) of Material

| <u>COATING</u> | <u>Current Limit</u> | <u>On and After</u> <u>7/1/2005</u> |
|--|----------------------|--|
| Low-Solids Barrier Coat - Plastic Components | 760 (6.3) | 120 (1.0) |
| Low-Solid Stains, Toners, and Washcoats | 480 (4.0) | 120 (1.0) |

Any coating subject to this rule that meets any of the three VOC limit formats (grams per liter, lb/gal, or lbs VOC/lb of solids) is in compliance with this subparagraph.

- (4) The VOC limit for japan coatings is 700 grams per liter of coatings, less water and exempt compounds, as applied.
- (b) A person shall not use a stripper on wood products unless:
- (1) it contains less than 350 grams of VOC per liter of material; or
 - (2) the VOC composite vapor pressure is 2 mm Hg (0.04 psia) or less at 20°C (68°F).



FACILITY PERMIT TO OPERATE LA CITY, DEPT OF AIRPORT

APPENDIX B: RULE EMISSION LIMITS [RULE 1151 12-11-1998]

Except as otherwise provided in Rule 1151

(1) VOC Content of Coatings

A person shall not apply a coating to Group I vehicles and equipment, and Group II vehicles, or their parts and components, which has a VOC content which exceeds the limits contained in subparagraphs (1)(A) and (1)(B). Compliance with the VOC limits shall be based on VOC content, including any VOC material added to the original coating supplied by the manufacturer, less water and exempt compounds, as applied to the vehicle, mobile equipment, or parts and components.

(A) Group I Vehicles and Equipment

The operator who applies coatings to Group I vehicles and equipment, or their parts or components, shall not apply a coating which has a VOC content in excess of the limits in Table 1.

TABLE 1

VOC LIMITS
Grams Per Liter of Coating,
Less Water and Exempt Compounds

| <u>COATING</u> | <u>On and After December 12, 1998</u> | |
|--|---|---------------|
| | <u>g/L</u> | <u>lb/gal</u> |
| Pretreatment | 780 | 6.5 |
| Primer/Primer Surfacer/ Primer Sealer | 250 | 2.1 |
| Topcoats | | |
| General | 340 | 2.8 |
| Metallic/Iridescent | 340* | 2.8* |
| Multi-Colored | 685 | 5.7 |
| Multistage | 340* | 2.8* |
| Specialty Coating | 840 | 7.0 |

*The VOC limits for Metallic/Iridescent and Multistage topcoats for spot repairs on Group I vehicles and mobile equipment will be 3.5 lb/gal (less water and exempt compounds).



FACILITY PERMIT TO OPERATE LA CITY, DEPT OF AIRPORT

APPENDIX B: RULE EMISSION LIMITS [RULE 1151 12-11-1998]

(B) Group II Vehicles

The operator who applies coatings to Group II vehicles, or their parts or components, shall not apply a coating which has a VOC content in excess of the limits in Table 2.

TABLE 2

VOC Limits
Grams Per Liter of Coating,
Less Water and Exempt Compounds

| COATING | On and After December 12, 1998 | | On and After July 1, 1999 | | On and After October 1, 1999 | |
|--------------------------|-----------------------------------|--------|------------------------------|--------|---------------------------------|--------|
| | g/L | lb/gal | g/L | lb/gal | g/L | lb/gal |
| Pretreatment | 780 | 6.5 | 780 | 6.5 | 780 | 6.5 |
| Primer/Primer Surfacer | 250 | 2.1 | 250 | 2.1 | 250 | 2.1 |
| Primer Sealer | 340 | 2.8 | 340 | 2.8 | 340 | 2.8 |
| Topcoats | | | | | | |
| General | 420 | 3.5 | 420 | 3.5 | 420 | 3.5 |
| Metallic/Iridescent | 420 | 3.5 | 420 | 3.5 | 420 | 3.5 |
| Multi-Colored | 685 | 5.7 | 685 | 5.7 | 685 | 5.7 |
| Multistage System | | | | | | |
| ≥ 2 gal/day ¹ | 540 | 4.5 | 420 ¹ | 3.5 | 420 | 3.5 |
| < 2 gal/day ² | 540 | 4.5 | 540 ² | 4.5 | 420 | 3.5 |
| Multi-Colored Multistage | 420 | 3.5 | 420 | 3.5 | 420 | 3.5 |
| Specialty Coating | 840 | 7.0 | 840 | 7.0 | 840 | 7.0 |

¹ On and after July 1, 1999, any person who uses two gallons or more of combined basecoat and clearcoat, as applied, on any given day shall comply with the 420 g/L (3.5 lb/gal) limit.

² Any person who uses less than two gallons of combined basecoat and clearcoat, as applied, on each day up to September 30, 1999 shall comply with the 3.5 lb/gal limit on and after October 1, 1999.

(2) Exempt Compounds

The operator shall not apply a coating which contains any Group II exempt compounds as defined in Rule 102 except for methylene chloride; carbon tetrachloride; perchloroethylene; or cyclic, branched, or linear, completely methylated siloxanes (VMS).

(3) Carcinogenic Materials



FACILITY PERMIT TO OPERATE
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APPENDIX B: RULE EMISSION LIMITS
[RULE 1151 12-11-1998]

The operator shall not apply the coatings in which cadmium or hexavalent chromium was introduced as a pigment or as an agent to impart any property or characteristic to the coatings during manufacturing, distribution, or use of the applicable coatings.



FACILITY PERMIT TO OPERATE LA CITY, DEPT OF AIRPORT

APPENDIX B: RULE EMISSION LIMITS [RULE 1151 12-2-2005]

The following limits of this rule shall sunset on June 30, 2008, and the limits specified in Appendix A shall become effective on July 1, 2008.

Except as otherwise provided in Rule 1151

(1) VOC Content of Coatings

A person shall not apply a coating to Group I vehicles and equipment, and Group II vehicles, or their parts and components, which has a VOC content which exceeds the limits contained in subparagraphs (1)(A) and (1)(B). Compliance with the VOC limits shall be based on VOC content, including any VOC material added to the original coating supplied by the manufacturer, less water and exempt compounds, as applied to the vehicle, mobile equipment, or parts and components.

(A) Group I Vehicles and Equipment

A person who applies coatings to Group I vehicles and equipment, or their parts or components, shall not apply a coating which has a VOC content in excess of the limits in Table 1.



FACILITY PERMIT TO OPERATE
LA CITY, DEPT OF AIRPORT

APPENDIX B: RULE EMISSION LIMITS
[RULE 1151 12-2-2005]

TABLE 1

| <u>COATING</u> | <u>VOC LIMITS</u> Grams Per Liter of Coating, Less Water and Exempt Compounds | |
|--|---|---------------|
| | On and After December 12, 1998 | |
| | <u>g/L</u> | <u>lb/gal</u> |
| Pretreatment | 780 | 6.5 |
| Primer/Primer Surfacer/ Primer Sealer | 250 | 2.1 |
| Topcoats | | |
| General | 340 | 2.8 |
| Metallic/Iridescent | 340* | 2.8* |
| Multi-Colored | 685 | 5.7 |
| Multistage | 340* | 2.8* |
| Specialty Coating | 840 | 7.0 |

*The VOC limits for Metallic/Iridescent and Multistage topcoats for spot repairs on Group I vehicles and mobile equipment will be 3.5 lb/gal (less water and exempt compounds).

(B) Group II Vehicles

A person who applies coatings to Group II vehicles, or their parts or components, shall not apply a coating which has a VOC content in excess of the limits in Table 2.



FACILITY PERMIT TO OPERATE
LA CITY, DEPT OF AIRPORT

APPENDIX B: RULE EMISSION LIMITS
[RULE 1151 12-2-2005]

TABLE 2

| COATING | VOC Limits | | | | | |
|--------------------------|--|---------------|------------------------------|---------------|---------------------------------|---------------|
| | Grams Per Liter of Coating, Less Water and Exempt Compounds | | | | | |
| | On and After December 12, 1998 | | On and After July 1, 1999 | | On and After October 1, 1999 | |
| | <u>g/L</u> | <u>lb/gal</u> | <u>g/L</u> | <u>lb/gal</u> | <u>g/L</u> | <u>lb/gal</u> |
| Pretreatment | 780 | 6.5 | 780 | 6.5 | 780 | 6.5 |
| Primer/Primer Surfacer | 250 | 2.1 | 250 | 2.1 | 250 | 2.1 |
| Primer Sealer | 340 | 2.8 | 340 | 2.8 | 340 | 2.8 |
| Topcoats | | | | | | |
| General | 420 | 3.5 | 420 | 3.5 | 420 | 3.5 |
| Metallic/Iridescent | 420 | 3.5 | 420 | 3.5 | 420 | 3.5 |
| Multi-Colored | 685 | 5.7 | 685 | 5.7 | 685 | 5.7 |
| Multistage System | | | | | | |
| ≥ 2 gal/day ¹ | 540 | 4.5 | 420 ¹ | 3.5 | 420 | 3.5 |
| < 2 gal/day ² | 540 | 4.5 | 540 ² | 4.5 | 420 | 3.5 |
| Multi-Colored Multistage | 420 | 3.5 | 420 | 3.5 | 420 | 3.5 |
| Specialty Coating | 840 | 7.0 | 840 | 7.0 | 840 | 7.0 |

¹ On and after July 1, 1999, any person who uses two gallons or more of combined basecoat and clearcoat, as applied, on any given day shall comply with the 420 g/L (3.5 lb/gal) limit.

² Any person who uses less than two gallons of combined basecoat and clearcoat, as applied, on each day up to September 30, 1999 shall comply with the 3.5 lb/gal limit on and after October 1, 1999.



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APPENDIX B: RULE EMISSION LIMITS [RULE 1151 12-2-2005]

(2) **Exempt Compounds**

A person shall not apply a coating which contains any Group II exempt compounds as defined in Rule 102 except for methylene chloride; carbon tetrachloride; perchloroethylene; or cyclic, branched, or linear, completely methylated siloxanes (VMS).

(3) **Carcinogenic Materials**

A person shall not apply the coatings in which cadmium or hexavalent chromium was introduced as a pigment or as an agent to impart any property or characteristic to the coatings during manufacturing, distribution, or use of the applicable coatings.

Appendix A

Effective July 1, 2008, the emission limits specified in this appendix shall become effective and replace the limits specified above

Except as otherwise provided in Rule 1151

- (1) A person shall not apply any coating to a vehicle, mobile equipment, or associated parts or components, that have a VOC content in excess of the limits contained in Table A of this paragraph. Compliance with the VOC limits shall be based on VOC content, including any VOC material added to the original coating supplied by the manufacturer, less water and exempt compounds, as applied to the vehicle, mobile equipment or parts and components.



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APPENDIX B: RULE EMISSION LIMITS
[RULE 1151 12-2-2005]

Table A – Coating Categories and VOC limits

| Coating Categories | VOC Limits | | | | | |
|------------------------------|--------------------------------------|--------|-----------------|--------|-----------------|--------|
| | Less Water and Less Exempt Compounds | | | | | |
| | Effective Dates | | | | | |
| | July 1, 2008 | | January 1, 2009 | | January 1, 2010 | |
| | g/L | lb/gal | g/L | lb/gal | g/L | lb/gal |
| Adhesion Promoter | | | | | 540 | 4.5 |
| Clear Coating | 250 | 2.1 | | | | |
| Color Coating | 420 | 3.5 | | | | |
| Multi-Color Coating | | | 680 | 5.7 | | |
| Pretreatment Coating | | | 660 | 5.5 | | |
| Primer | | | | | 250 | 2.1 |
| Single-Stage Coating | | | | | 340 | 2.8 |
| Temporary Protective Coating | | | 60 | 0.5 | | |
| Truck Bed Liner Coating | | | 310 | 2.6 | | |
| Underbody Coating | | | 430 | 3.6 | | |
| Uniform Finishing Coating | | | 540 | 4.5 | | |
| Any other coating type | | | 250 | 2.1 | | |



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APPENDIX B: RULE EMISSION LIMITS **[RULE 1151 12-2-2005]**

- (1) **Most Restrictive VOC Limit**
If any representation on information on the container of any automotive coating, or any label or sticker affixed to the container, or in any sales, advertising, or technical literature supplied by a person that indicates that the coating meets the definition of or is recommended for use for more than one of the coating categories listed in paragraph (1), then the lowest VOC content limit shall apply.
- (2) **VOC Limits Compliance Dates**
The VOC limits in effect as of December 2, 2005 shall be applicable until superceded by the VOC limits and effectiveness dates in Table A of paragraph (1).
- (3) **Exempt Compounds**
A person shall not manufacture, sell, offer for sale, distribute for use in the District, or apply any coating which contains any Group II Exempt Compounds as defined in Rule 102.
- (4) **Carcinogenic Materials**
A person shall not manufacture the coatings in which cadmium or hexavalent chromium was introduced as a pigment or as an agent to impart any property or characteristic to the coatings during manufacturing, distribution, or use of the applicable coatings.



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APPENDIX B: RULE EMISSION LIMITS
[RULE 1171 11-7-2003]

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

| SOLVENT CLEANING ACTIVITY | CURRENT LIMITS |
|--|------------------------|
| | VOC g/l (lb/gal) |
| (A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application | |
| (i) General | 25 (0.21) |
| (ii) Electrical Apparatus Components & Electronic Components | 500 (4.2) |
| (iii) Medical Devices & Pharmaceuticals | 800 (6.7) |
| (B) Repair and Maintenance Cleaning | |
| (i) General | 25 (0.21) |
| (ii) Electrical Apparatus Components & Electronic Components | 900 (7.5) |
| (iii) Medical Devices & Pharmaceuticals | |
| (A) Tools, Equipment, & Machinery | 800 (6.7) |
| (B) General Work Surfaces | 600 (5.0) |



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APPENDIX B: RULE EMISSION LIMITS
[RULE 1171 11-7-2003]

| SOLVENT CLEANING ACTIVITY | CURRENT LIMITS |
|---|------------------------|
| | VOC g/l (lb/gal) |
| (C) Cleaning of Coatings or Adhesives Application Equipment | 550 (4.6) |
| (D) Cleaning of Ink Application Equipment | |
| (i) General | 25 (0.21) |
| (ii) Flexographic Printing | 25 (0.21) |
| (iii) Gravure Printing | |
| (A) Publication | 750 (6.3) |
| (B) Packaging | 25 (0.21) |
| (iv) Lithographic or Letter Press Printing | |
| (A) Roller Wash – Step 1 | 600 (5.0) |
| (B) Roller Wash-Step 2, Blanket Wash, & On-Press Components | 800 (6.7) |
| (C) Removable Press Components | 25 (0.21) |
| (v) Screen Printing | 750 (6.3) |
| (vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing) | 800 (6.7) |



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APPENDIX B: RULE EMISSION LIMITS
[RULE 1171 11-7-2003]

| SOLVENT CLEANING ACTIVITY | CURRENT LIMITS |
|---|------------------------|
| | VOC g/l (lb/gal) |
| (vii) Specialty Flexographic Printing | 600 (5.0) |
| (E) Cleaning of Polyester Resin Application Equipment | 25 (0.21) |



FACILITY PERMIT TO OPERATE
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APPENDIX B: RULE EMISSION LIMITS
[RULE 1171 2-1-2008]

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

| | CURRENT LIMITS* | EFFECTIVE 1/1/2008* | EFFECTIVE 1/1/2009 |
|---|------------------------|------------------------|------------------------|
| SOLVENT CLEANING ACTIVITY | VOC g/l (lb/gal) | VOC g/l (lb/gal) | VOC g/l (lb/gal) |
| (A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application | | | |
| (i) General | 25 (0.21) | | |
| (ii) Electrical Apparatus Components & Electronic Components | 100 (0.83) | | |
| (iii) Medical Devices & Pharmaceuticals | 800 (6.7) | | |
| (B) Repair and Maintenance Cleaning | | | |
| (i) General | 25 (0.21) | | |
| (ii) Electrical Apparatus Components & Electronic Components | 100 (0.83) | | |



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APPENDIX B: RULE EMISSION LIMITS
[RULE 1171 2-1-2008]

| | CURRENT LIMITS* | EFFECTIVE 1/1/2008* | EFFECTIVE 1/1/2009 |
|--|------------------------|------------------------|------------------------|
| SOLVENT CLEANING ACTIVITY (cont.) | VOC g/l (lb/gal) | VOC g/l (lb/gal) | VOC g/l (lb/gal) |
| (iii) Medical Devices & Pharmaceuticals | | | |
| (A) Tools, Equipment, & Machinery | 800 (6.7) | | |
| (B) General Work Surfaces | 600 (5.0) | | |
| (C) Cleaning of Coatings or Adhesives Application Equipment | 25 (0.21) | | |
| (D) Cleaning of Ink Application Equipment | | | |
| (i) General | 25 (0.21) | | |
| (ii) Flexographic Printing | 25 (0.21) | | |
| (iii) Gravure Printing | | | |
| (A) Publication | 100 (0.83) | | |
| (B) Packaging | 25 (0.21) | | |
| (iv) Lithographic (Offset) or Letter Press Printing | | | |
| (A) Roller Wash, Blanket Wash, & On-Press Components | | | |
| (I) Newsprint | 100 (0.83) | | |



FACILITY PERMIT TO OPERATE
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APPENDIX B: RULE EMISSION LIMITS
[RULE 1171 2-1-2008]

| | CURRENT LIMITS* | EFFECTIVE 1/1/2008* | EFFECTIVE 1/1/2009 |
|--|---------------------------------|---------------------------------|---------------------------------|
| SOLVENT CLEANING ACTIVITY (cont.) | VOC g/l (lb/gal) | VOC g/l (lb/gal) | VOC g/l (lb/gal) |
| (II) Other Substrates | 500 (4.2) | 100 (0.83) | |
| (B) Removable Press Components | 25 (0.21) | | |
| (v) Screen Printing | 500 (4.2) | 100 (0.83) | |
| (vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing) | 650 (5.4) | 650 (5.4) | 100 (0.83) |
| (vii) Specialty Flexographic Printing | 100 (0.83) | | |
| (E) Cleaning of Polyester Resin Application Equipment | 25 (0.21) | | |

* The specified limits remain in effect unless revised limits are listed in subsequent columns.



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APPENDIX B: RULE EMISSION LIMITS
[RULE 404 2-7-1986]

The operator shall not discharge into the atmosphere from this equipment, particulate matter in excess of the concentration at standard conditions, shown in Table 404(a).

Where the volume discharged is between figures listed in the Table, the exact concentration permitted to be discharged shall be determined by linear interpolation.

For the purposes of this rule, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

TABLE 404(a)

| Volume Discharged Calculated as Dry Gas At Standard Conditions | | Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions | | Volume Discharged Calculated as Dry Gas At Standard Conditions | | Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions | |
|--|--------------------------------|--|--------------------------|--|--------------------------------|---|-----------------------------|
| Cubic meters Per Minute | Cubic feet Per Minute | Milligrams per Cubic Meter | Grains per Cubic Foot | Cubic meters Per Minute | Cubic feet Per Minute | Milligrams per Cubic Meter | Grains per Cubic Foot |
| 25 or less | 883 or less | 450 | 0.196 | 900 | 31780 | 118 | 0.0515 |
| 30 | 1059 | 420 | .183 | 1000 | 35310 | 113 | .0493 |
| 35 | 1236 | 397 | .173 | 1100 | 38850 | 109 | .0476 |
| 40 | 1413 | 377 | .165 | 1200 | 42380 | 106 | .0463 |
| 45 | 1589 | 361 | .158 | 1300 | 45910 | 102 | .0445 |
| 50 | 1766 | 347 | .152 | 1400 | 49440 | 100 | .0437 |
| 60 | 2119 | 324 | .141 | 1500 | 52970 | 97 | .0424 |
| 70 | 2472 | 306 | .134 | 1750 | 61800 | 92 | .0402 |



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APPENDIX B: RULE EMISSION LIMITS
[RULE 404 2-7-1986]

| Volume Discharged Calculated as Dry Gas At Standard Conditions | | Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions | | Volume Discharged Calculated as Dry Gas At Standard Conditions | | Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions | |
|--|--------------------------------|--|--------------------------|--|--------------------------------|---|-----------------------------|
| Cubic meters Per Minute | Cubic feet Per Minute | Milligrams per Cubic Meter | Grains per Cubic Foot | Cubic meters Per Minute | Cubic feet Per Minute | Milligrams per Cubic Meter | Grains per Cubic Foot |
| 80 | 2825 | 291 | .127 | 2000 | 70630 | 87 | .0380 |
| 90 | 3178 | 279 | .122 | 2250 | 79460 | 83 | .0362 |
| 100 | 3531 | 267 | .117 | 2500 | 88290 | 80 | .0349 |
| 125 | 4414 | 246 | .107 | 3000 | 105900 | 75 | .0327 |
| 150 | 5297 | 230 | .100 | 4000 | 141300 | 67 | .0293 |
| 175 | 6180 | 217 | .0947 | 5000 | 176600 | 62 | .0271 |
| 200 | 7063 | 206 | .0900 | 6000 | 211900 | 58 | .0253 |
| 250 | 8829 | 190 | .0830 | 8000 | 282500 | 52 | .0227 |
| 300 | 10590 | 177 | .0773 | 10000 | 353100 | 48 | .0210 |
| 350 | 12360 | 167 | .0730 | 15000 | 529700 | 41 | .0179 |
| 400 | 14130 | 159 | .0694 | 20000 | 706300 | 37 | .0162 |
| 450 | 15890 | 152 | .0664 | 25000 | 882900 | 34 | .0148 |
| 500 | 17660 | 146 | .0637 | 30000 | 1059000 | 32 | .0140 |
| 600 | 21190 | 137 | .0598 | 40000 | 1413000 | 28 | .0122 |
| 700 | 24720 | 129 | .0563 | 50000 | 1766000 | 26 | .0114 |
| 800 | 28250 | 123 | .0537 | 70000 or more | 2472000 or more | 23 | .0100 |



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APPENDIX B: RULE EMISSION LIMITS
[RULE 405 2-7-1986]

The operator shall not discharge into the atmosphere from this equipment, solid particulate matter including lead and lead compounds in excess of the rate shown in Table 405(a).

Where the process weight per hour is between figures listed in the table, the exact weight of permitted discharge shall be determined by linear interpolation.

For the purposes of this rule, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

TABLE 405(a)

| Process Weight Per Hour | | Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All Points of Process) | | Process Weight Per Hour | | Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All points of Process) | |
|----------------------------|--------------------|---|--------------------|----------------------------|--------------------|--|--------------------|
| Kilograms Per Hour | Pounds Per Hour | Kilograms Per Hour | Pounds Per Hour | Kilograms Per Hour | Pounds Per Hour | Kilograms Per Hour | Pounds Per Hour |
| 100 or less | 220 or less | 0.450 | 0.99 | 9000 | 19840 | 5.308 | 11.7 |
| 150 | 331 | 0.585 | 1.29 | 10000 | 22050 | 5.440 | 12.0 |
| 200 | 441 | 0.703 | 1.55 | 12500 | 27560 | 5.732 | 12.6 |
| 250 | 551 | 0.804 | 1.77 | 15000 | 33070 | 5.982 | 13.2 |
| 300 | 661 | 0.897 | 1.98 | 17500 | 38580 | 6.202 | 13.7 |
| 350 | 772 | 0.983 | 2.17 | 20000 | 44090 | 6.399 | 14.1 |
| 400 | 882 | 1.063 | 2.34 | 25000 | 55120 | 6.743 | 14.9 |
| 450 | 992 | 1.138 | 2.51 | 30000 | 66140 | 7.037 | 15.5 |
| 500 | 1102 | 1.209 | 2.67 | 35000 | 77160 | 7.296 | 16.1 |
| 600 | 1323 | 1.340 | 2.95 | 40000 | 88180 | 7.527 | 16.6 |
| 700 | 1543 | 1.461 | 3.22 | 45000 | 99210 | 7.738 | 17.1 |
| 800 | 1764 | 1.573 | 3.47 | 50000 | 110200 | 7.931 | 17.5 |
| 900 | 1984 | 1.678 | 3.70 | 60000 | 132300 | 8.277 | 18.2 |
| 1000 | 2205 | 1.777 | 3.92 | 70000 | 154300 | 8.582 | 18.9 |



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APPENDIX B: RULE EMISSION LIMITS
[RULE 405 2-7-1986]

| Process Weight Per Hour | | Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All Points of Process) | | Process Weight Per Hour | | Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All points of Process) | |
|----------------------------|--------------------|---|--------------------|----------------------------|--------------------|--|--------------------|
| Kilograms Per Hour | Pounds Per Hour | Kilograms Per Hour | Pounds Per Hour | Kilograms Per Hour | Pounds Per Hour | Kilograms Per Hour | Pounds Per Hour |
| 1250 | 2756 | 2.003 | 4.42 | 80000 | 176400 | 8.854 | 19.5 |
| 1500 | 3307 | 2.206 | 4.86 | 90000 | 198400 | 9.102 | 20.1 |
| 1750 | 3858 | 2.392 | 5.27 | 100000 | 220500 | 9.329 | 20.6 |
| 2000 | 4409 | 2.563 | 5.65 | 125000 | 275600 | 9.830 | 21.7 |
| 2250 | 4960 | 2.723 | 6.00 | 150000 | 330700 | 10.26 | 22.6 |
| 2500 | 5512 | 2.874 | 6.34 | 175000 | 385800 | 10.64 | 23.5 |
| 2750 | 6063 | 3.016 | 6.65 | 200000 | 440900 | 10.97 | 24.2 |
| 3000 | 6614 | 3.151 | 6.95 | 225000 | 496000 | 11.28 | 24.9 |
| 3250 | 7165 | 3.280 | 7.23 | 250000 | 551200 | 11.56 | 25.5 |
| 3600 | 7716 | 3.404 | 7.50 | 275000 | 606300 | 11.82 | 26.1 |
| 4000 | 8818 | 3.637 | 8.02 | 300000 | 661400 | 12.07 | 26.6 |
| 4500 | 9921 | 3.855 | 8.50 | 325000 | 716500 | 12.30 | 27.1 |
| 5000 | 11020 | 4.059 | 8.95 | 350000 | 771600 | 12.51 | 27.6 |
| 6000 | 13230 | 4.434 | 9.78 | 400000 | 881800 | 12.91 | 28.5 |
| 7000 | 15430 | 4.775 | 10.5 | 450000 | 992100 | 13.27 | 29.3 |
| 8000 | 17640 | 5.089 | 11.2 | 500000 or more | 1102000 or more | 13.60 | 30.0 |